calendar description

Through examples and case studies, this course introduces the issues of authenticity, sustainability, and relevant principles of practice as they apply to the adaptive re-use of heritage buildings. Once introduced, these issues are put into practice via re-designing an authentic, sustainable heritage building.

additional description

This course is a design exercise. It explores answers to the question of how to create authentic, sustainable building envelope details for an adaptive re-use project.

The course's focus is on the interface between the old and the new - the existing building and the new work. Various building details will be studied. The course lectures and assignments are about applying the test of authenticity and the principles of sustainability to these details.

adaptive reuse – the conversion of an old building into something better suited to contemporary requirements.
Course Learning Objectives & Methodology

an awareness of:
1) the concept and categories of adaptive re-use;
2) the key details at the old - new interface;
3) what authenticity means and how it is applied to the built environment;
4) how to apply the test of authenticity to a building detail;
5) what sustainability means and how it is applied to the built environment; and

The course is lecture based and divided into three modules. The May 24 and June 21 lectures include an in-class workshop where students are expected to discuss the work done on their assignment: assignment 1 on May 24 and assignment 2 on June 21.

Schedule

Wednesday mornings 9:30 AM - 12:00 PM in HB2.
Office hours are by prior arrangement. AP's office is HB9 in the Faculty office block.
contact information for arranging a meeting or asking a question out of class:
austin.parsons@dal.ca
1 902 233-3431 (c)

Module 1: Adaptive Re-use
1  May 3  categories & the old - new interface
2  May 10  old - new details
Module 2: Authenticity
3  May 17  authenticity
4  May 24  the authenticity test: in-class workshop
5  May 31  no class
6  June 7  assignment 1 due: the authenticity test
Module 3: Sustainability
7  June 14  sustainability
8  June 21  making old details new: in-class workshop
9  June 28  assignment 2 due: creative insulation

parts become patterns
Assignment 1: the authenticity test
Apply the test of authenticity to an old - new detail.

You have been presented with a roof to roof detail for a proposed adaptive re-use of a character building on a World Heritage site. You have been asked whether the detail is authentic (i.e. is the detail authentic, or not.)

The assignment’s deliverable is a digital presentation of no more than six slides to be presented in ten minutes.

Your work should focus on whether or not the new detail’s design, materials and craftsmanship strengthens or diminishes the old detail’s authenticity. Please also make reference to how the old - new detail supports the genius loci.

Assignment 2: creative insulation
Bring an old - new detail up to modern energy efficiency standards.

Looking at the same roof to roof detail, the building owner has asked you maintain the detail’s authenticity and durability, but reduce the detail’s power consumption (instantaneous energy consumption).

The assignment’s deliverable is a digital presentation of no more than six slides to be presented in ten minutes.

Your work should include how you modified the detail (air barrier system, insulation) as well as how you addressed drying potential, water control and serviceability (maintenance).
Course Evaluation

Your grade will be based on the results of two assignments that are done individually as per the criteria outlined in Assignment 1 & 2 Grading Rubric. Assignment 1 represents 40% of your grade. Assignment 2 the remaining 60%. Each assignment is due at the beginning of class on the assigned due date. Late work will be penalized 10% per weekday. AP will grade the work using the following scale. See Dalhousie University’s graduate grade scale: http://tinyurl.com/lcwlfdw > 7.6.2.

letter grade numerical (%) equivalent
A+ 90-100
A 85-89
A- 80-84
B+ 77-79
B 73-76
B- 70-72
F < 70

Assignment 1 & 2 Grading Rubric

A+ 90-100
The work exceeds expectations. It shows considerable command of critical and other secondary material. The work could be considered publishable in an academic journal.

A 85-89
The work constitutes excellent graduate work. It shows considerable command of critical and other secondary material. In theory, it could be published, but would need significant revision.

A- 80-84
The work constitutes very good graduate level work. Both the drawings and writing is well done and thoroughly researched. The work offers a good understanding of the primary material and the scholarly discussion thereof.

B+ 76-79
The work may be considered good graduate work, but shows weaknesses in terms of research, argumentation or writing.

B 73-75
The work is satisfactory graduate work, but with substantial flaws in one or more areas of research, argumentation, drawing or writing.

B- 70-72
The work is passable graduate work, showing considerable weaknesses or errors in research, argumentation, drawings and writing.

F 0
Work is absent or the work is not passable graduate work. It shows a substantial and significant weaknesses including errors in research, argumentation, drawings and writing.

adaptive reuse – the conversion of an old building into something better suited to contemporary requirements.
course references

1 categories & the old - new interface


architects
websites
http://www.carusostjohn.com/
http://www.haworthtompkins.com/
https://www.herzogdemeuron.com/index.html

https://www.google.ca/search?q=Malcolm+Fraser+Architects&tbm=isch&imgil=kbPWsaFVLbNLM%253A%253BOo VpsuKDNuOF9M%253Bhttp%25253A%25252F%25252Farchello.com%25252Fen%25252Fcompany%25252Fmalcolm-fraser-architects&source=iu&pf=m&fir=kbPWSafVLbNLM%253A%252C&oq=kbPWSafVLbNLM%253A&ie=UTF-8&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662&ved=0ahUKEwiC98b6w_LLAhWGTIMKHzdQ_yjcxwIc&biw=1218&bih=662

case studies


2 old - new details


adaptive reuse – the conversion of an old building into something better suited to contemporary requirements.
3 authenticity
theory


Charter and Conventions
Canada


International (ICCOMOS & UNESCO)


adaptive reuse – the conversion of an old building into something better suited to contemporary requirements.
http://www.icomos.org/docs/san_antonio.html


United States

4 the authenticity test
design

materials


craftsmanship


setting


websites
http://issuu.com/erotenberger/docs/restoring_authenticity_through_adaptive_Re-use

7 sustainability
websites
http://sustainableantigonish.ca/4-pillars/
https://en.wikipedia.org/wiki/Melbourne_Principles
https://www.mcgill.ca/jsdlp/files/jsdlp/4_2_3_wilkins_2.pdf

8 making old details new


adapative reuse – the conversion of an old building into something better suited to contemporary requirements.


websites
https://savingplaces.org/stories/how-to-support-adaptive-Re-use-of-historic-buildings#.VvqMDNfj5I8
http://www.andysowards.com/blog/2012/30-epic-adaptive-Re-use-architecture/
http://www.thestar.com/news/insight/2013/02/22/architects_turn_to_adaptive_Re-use_to_save_heritage_buildings.html
http://www.gardinergreenribbon.com/adaptive-Re-use-toronto/
http://www.urbanghostsmedia.com/2014/09/10-clever-examples-adaptive-Re-use-design/

case studies
Tate Modern
https://en.wikipedia.org/wiki/Tate_Modern#The_Tanks_2
http://www.archdaily.com/429700/ad-classics-the-tate-modern-herzog-and-de-meuron